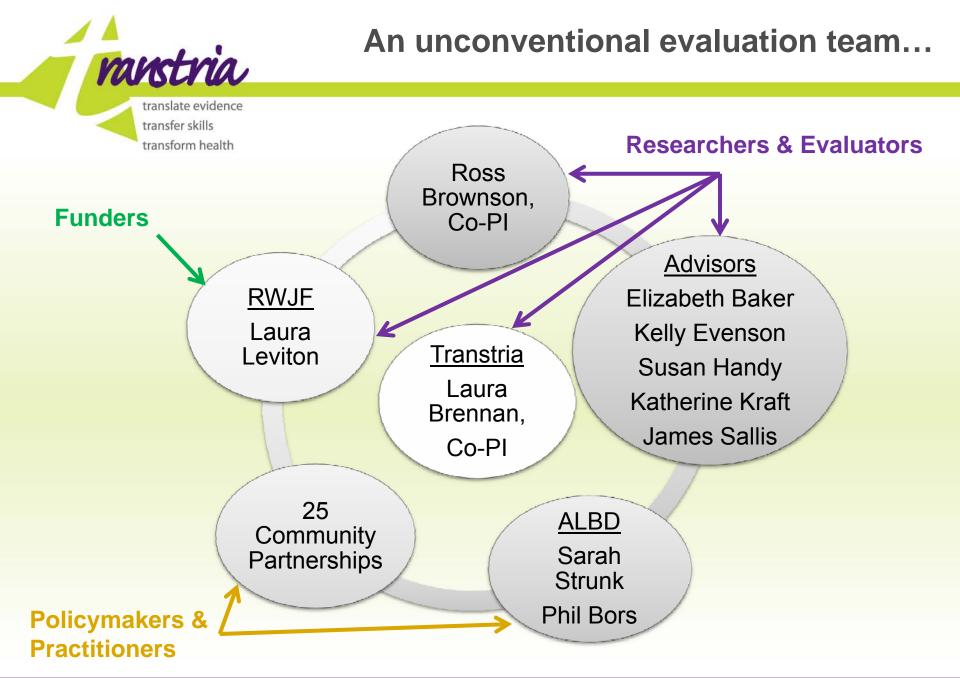
Evaluation of Active Living by Design:

A mixed-methods approach to assessing implementation patterns across communities







Active Living by Design Community Partnerships



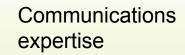


"High touch/ low dollar" approach

Community partnerships received \$40,000/year from 2003 to 2007 plus...

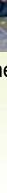


Strong leadership





Annual meetings





And fun!

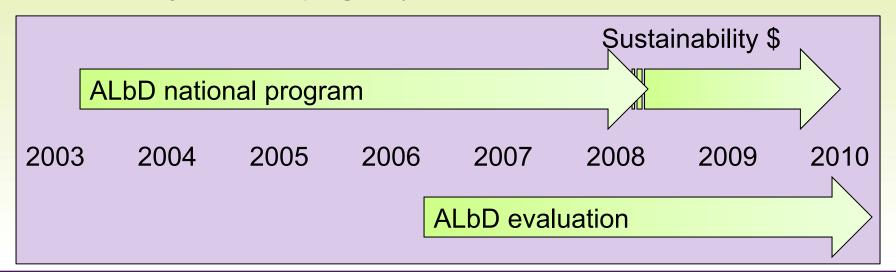


Evaluation... Take 2

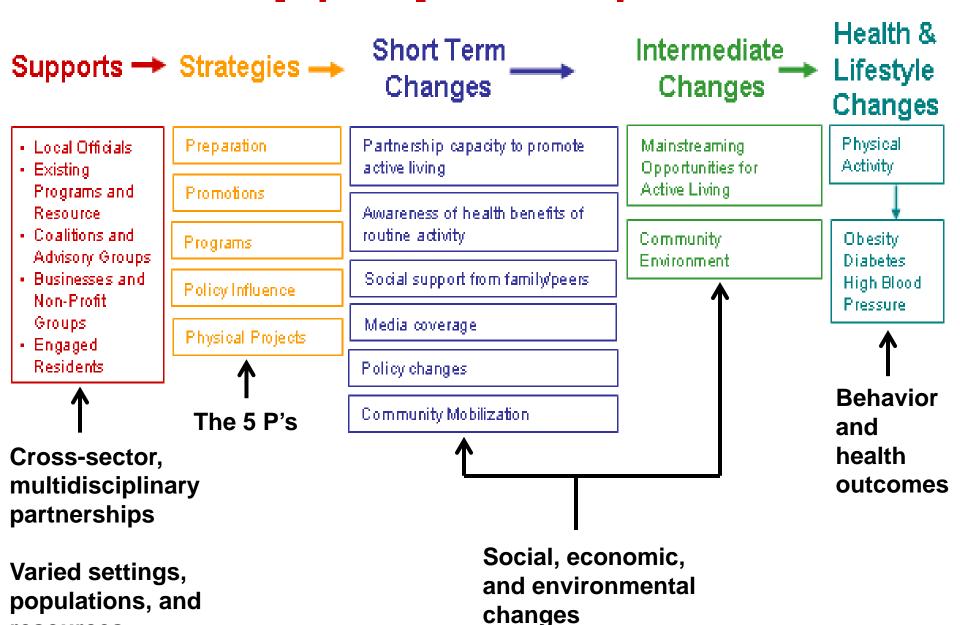
ALbD community partnership efforts launched in November 2003.

A previous plan to initiate an evaluation from the beginning of the ALbD program was discontinued in October 2005.

This plan for evaluation started in November 2006 (i.e., the start of the fourth year of the program).

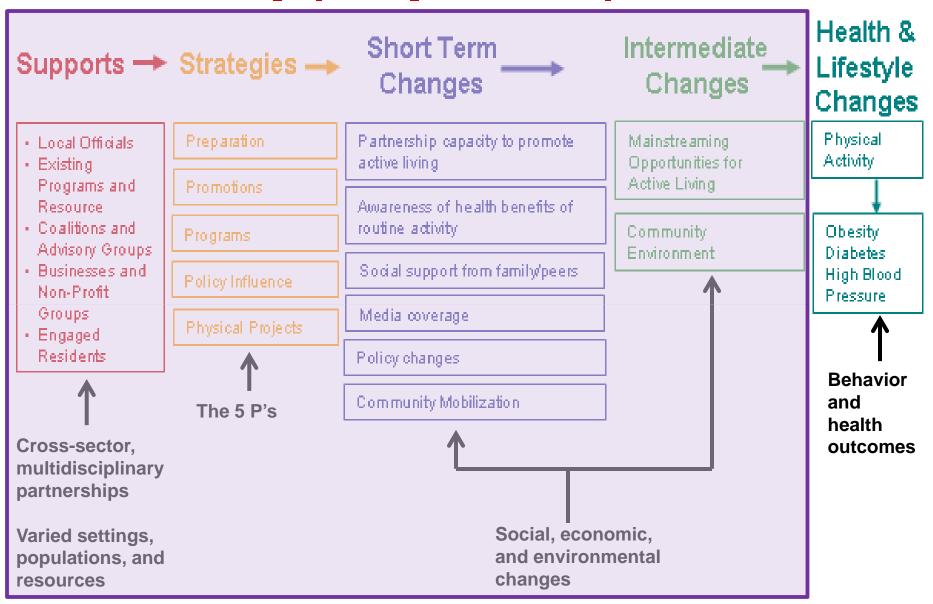


Active Living by Design Community Action Model



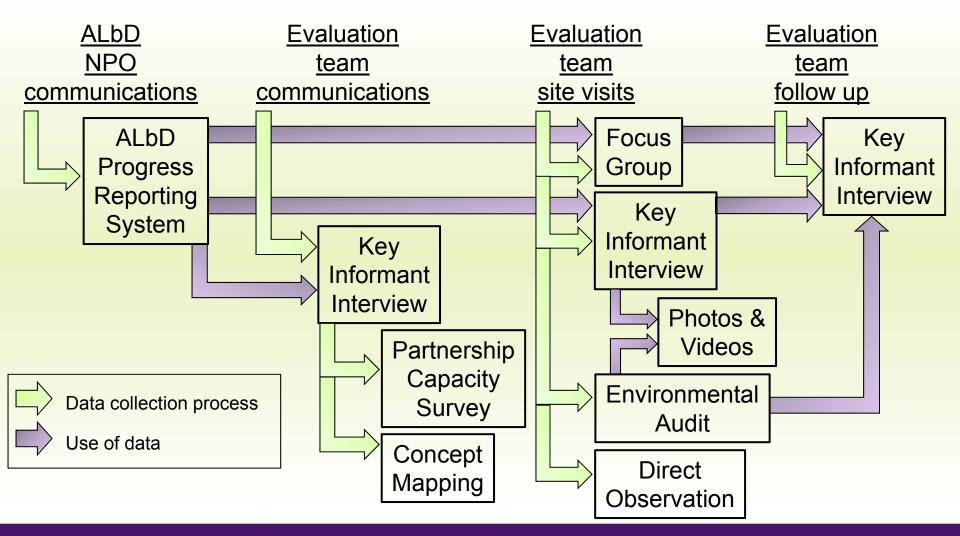
resources

Active Living by Design Community Action Model





Data collection approach





Evaluation Methods

Method	Purpose	Indicators	Participants
Progress	Track planning and	Partnership	Project director and/or
Reporting	implementation activities,	Preparation	coordinator, ALbD
System	intended and unintended	Promotions	National Program Office
	consequences of these	Programs	staff
(2004 to	activities in real-time.	Policy	(n = 25 communities)
2010)		Physical Projects	
Partnership	Identify characteristics of	Partnership's purpose and goals	Community partnership
capacity	the partnership, leadership,	Partnership functioning	members and staff
surveys	and relationships to the	Leadership	(n = 28 respondents and
	community.	Partnership resources	25 communities)
(2007 to		Partnership's relationship with the	
2008)		community	
Concept	Identify, categorize, and	Actions or changes that occurred in	Community partnership
mapping	prioritize active living	the community to support active	members, staff, and
	strategies for creating	living	community members
(2007 to	community change and		(n = 43 respondents and
2008)	increasing physical activity		23 communities)
	behavior.		



Evaluation Methods

Participants/

- 1	Talision neath		Participants/
Method	Purpose	Indicators	Observations
Key	Gain insights from staff and	Lead agency and community	<u>Staff</u> (n = 31 [before], 57
informant	partners and to set the	partnership characteristics	[during], and 9 [after] site
interviews	stage for the site visits by	Planning and implementation	visits in 25 communities)
	the evaluation team.	activities	Partners (n = 1 [before],
(2007 to		Intended and unintended	69 [during], and 5 [after]
2009)		consequences	site visits in 23
			communities)
Focus	Validate PRS reporting,	Community assets and needs	77 total focus groups
groups	gain insights from	Planning and implementation	Staff (n = 67 in 23
	community partners and	Intended and unintended	communities)
(2007 to	staff (planners and	consequences	Partners (n = 215 in 25
2008)	implementers) as well as	Strengths and challenges of the	communities)
	community members.	initiative	Community members (n
		Technical assistance from ALbD	= 201 in 24 communities)
Photos and	Capture physical activity	Images of people/ behaviors	Streets, trails, recreation
videos	behavior, environmental	Images of environmental conditions	facilities, and community
(00071	conditions, or intervention	(before and after intervention)	members
(2007 to 2008)	activities.	Images of intervention activities	(n = 25 communities)
2000)			

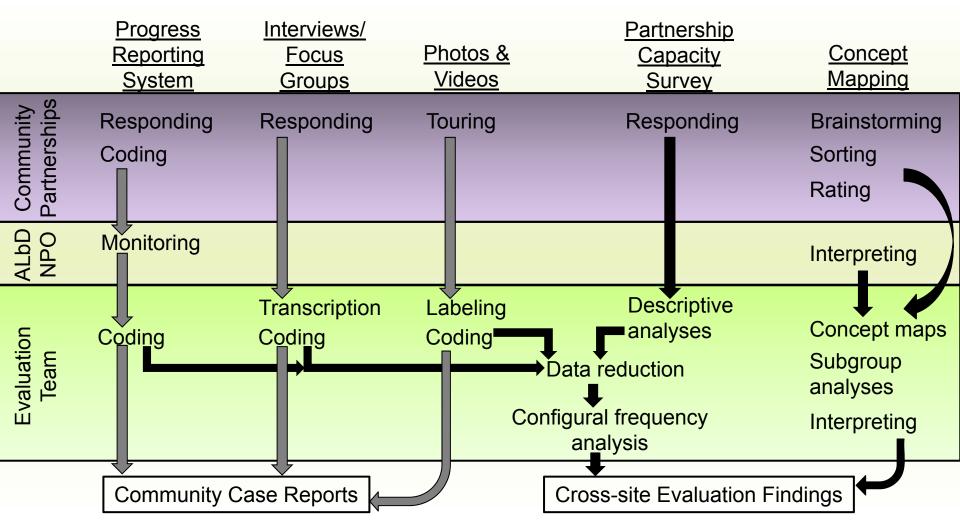


Evaluation Methods

Method	Purpose	Indicators	Observations
Environmental	Document the	Types of residential and non-	Street audits
audits	implementation of	residential land uses	(n = 45 segments
	physical projects.	Pedestrian and bicyclist	in 5 communities)
(2007)		infrastructure	Trail audits
		Street design characteristics	(n = 3 in 3 communities)
		Traffic calming and safety measures	School facility audit
		Parks, playgrounds, and	(n = 1 in 1 community)
		recreational facilities (presence and	
		condition)	
Direct	Document the impact of	Counts of individuals (e.g., children,	Streets (n = 11 locations
observation	physical projects on the	adults) as well as their physical	in 5 communities for 30
	physical activity	activity level (sedentary, walking,	hours of observation)
(2007)	behavior of community	biking, running) in selected	Trails (n = 3 trails in 3
	members.	environments	communities for 8 hours
			of observation
			School facility (n = 1
			facility in 1 community for
			1 hour of observation)



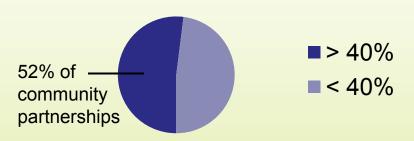
Triangulating mixed methods



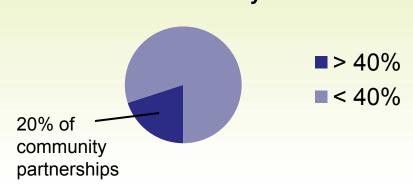


Community Variables

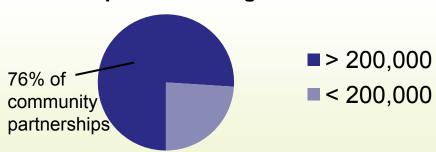
Proportion of Non-Caucasian Racial/ Ethnic Populations



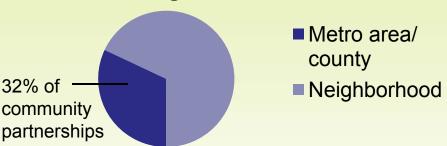
Proportion of Population in Poverty



Population Size – Proportion of Large or Small



Geographic Scale – Proportion of Large or Small

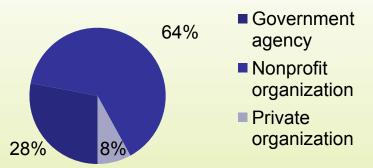


20% of community partnerships were located in southern states.

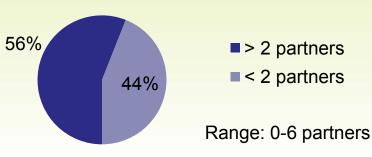


Preparation Variables

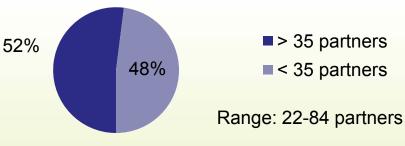
Lead Agency Types



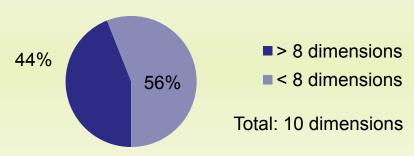
Core Partners



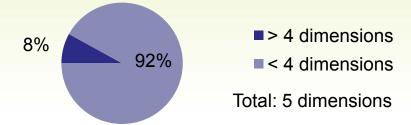
Network of Partners



Partnership Capacity



Community Capacity





More Partnership & Community Capacity...

Capacity Dimension	Examples	Mean % Agreement
Purpose & Goals	 Goals are clearly defined Decisions are based on community needs 	96%
Resources	 Partners have access to enough <u>space</u> to conduct daily tasks Partners have access to <u>equipment</u> to conduct daily tasks 	88%
Functioning	 Procedures are clearly defined Partners have input into decisions made 	78%
Leadership	Leaders have skills to succeedPartners trust the leadership	87%
Community Context	 Partners work with different types of community groups Groups in the community receive an equal amount of resources 	57%

Baker et al., 2012

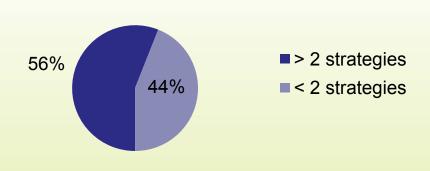


Preparation Variables (cont.)

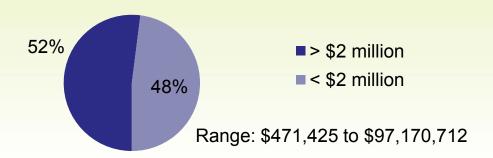
Assessments

■> 10 assessments < 10 assessments Range: 4-46 assessments

Sustainability



Resources Generated





More on Assessment

Assessment Methods	# of Grantees
Environmental audit	22
Survey	15
Focus group	15
Mapping (including Geographic Information Systems)	10
Feasibility study	9
Other (e.g., resource inventory, health screening, soul testing)	7
Interviews	6
Community meeting/discussion forum	5
Charrette	5
Secondary data analysis	5
Policy analysis	2
Direct behavior observation	2



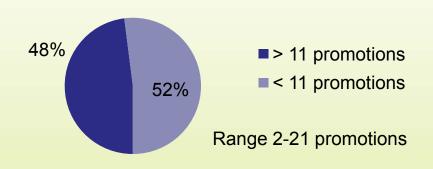
More on Sustainability

Sustainability Strategies	Example Approaches
Expanding Partnerships	<u>Buffalo</u> : Four Neighborhoods, One Community (<u>www.bnmc.org</u>) <u>Louisville</u> : Mayor's Healthy Hometown (<u>www.louisvilleky.gov/HealthyHometown/</u>) <u>Somerville</u> : Shape Up Somerville (<u>www.somervillema.gov</u>)
Sustainable Funding	Oakland: 1% of city budget on children's services and increase to 2.5% Sacramento: 25- to 30-year transportation sales tax (pedestrian, bike, transit) Santa Ana: Ballot measure for citywide sales tax increase to support joint use (\$5 to \$7 million per year for maintenance and security)
Permanent Advisory Committees	Cleveland: Bike/Pedestrian Advisory Committee Louisville: Built Environment Committee Nashville: Health and Fitness Task Force
Policy Change	<u>Chicago</u> : School Wellness Policies <u>Honolulu</u> : City Charter Amendment for a Bicycle/Pedestrian-Friendly Honolulu <u>Orlando</u> : Growth Management Policy
Institution/ Organization Change	<u>Charleston</u> : Mobility Manager (ride shares, public transit, air quality) <u>Columbia</u> : Department of Non-motorized Transportation <u>Jackson</u> : School District Safe Routes to School Coordinator

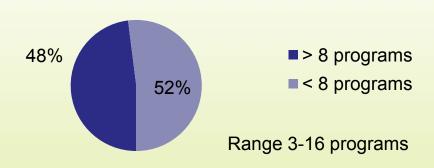


Variables: The Other 4Ps

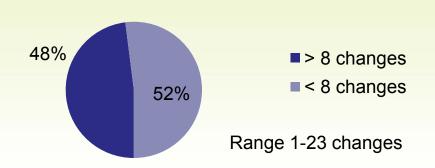
Promotional Efforts



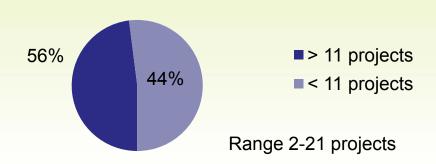
Programmatic Changes



Policy Influences



Physical Projects





More on Programs & Promotions

Strategies*	Community Partnerships
Media (TV, radio, newspaper)	25
Safe Routes to School	15
Walking clubs	13
Bike/Walk to School Day	13
Presentations/ press conferences	13
Festivals/carnivals/fairs	12
Social marketing campaigns	11
Bicycle recycle and donations	9
Bike riding events	9
Wellness programs	8
Walking School Bus/Bike Train	7
Bike safety and education	6
Physical education and wellness programs	5
Wellness/fitness classes	5

^{*}Strategies implemented by 4 or fewer community partnerships are not shown here.



More on Policies & Physical Projects

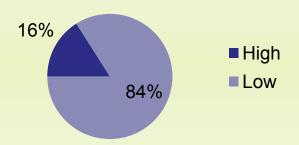
Policy Changes and Physical Project Strategies	Community Partnerships
<u>Urban Planning Sector</u> , examples:	·
Housing and developments	
Zoning regulations/ordinances	16
 Local ordinances (street trees, bike parking) 	
Subdivision regulations	
Active Transportation Sector, examples:	
Bicycle and pedestrian street improvements	
Street design policies and standards	23
Public transit improvements	
Traffic calming street improvements	
Park, Recreation, Open Space, and Trail Sector, examples:	
Community trail development	
Park development and redevelopment	22
Maintenance	
Land use policies (parks, recreation, and green/open spaces)	
School Sector, examples:	
Safe Routes to School (environment)	
Recreation facilities on school grounds	19
Schools policies (e.g., wellness, recess)	
Joint-use agreements	



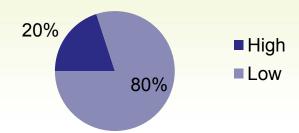
Variables: Integration of the 5Ps

"High" integration = use of at least 3 of 4 implementation strategies (4Ps)

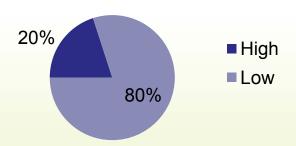
Community Design



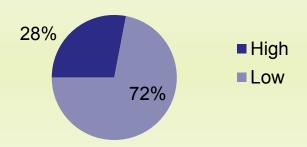
Parks and Recreation



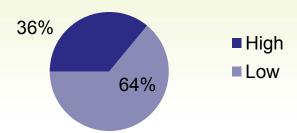
Overall Integration



Active Transportation



School





Configural Frequency Analysis

Variable-oriented analysis

How does each community perform on different variables for the 5Ps?

What are the associations between variables across communities?

Case-oriented analysis

How do the 5P variable arrangements differ according to clusters of communities?

What are the community patterns that are associated with different underlying systems?

Similar to cluster analysis and latent growth curve analysis, configural frequency analysis can detect configurations of cases that deviate from what is expected in a base model.

Deviations are the result of a system that "pushes" certain cases in a direction away from the general pattern.



Examples: Implementation Patterns

Type: Policy Changes



Proportion of racial/ ethnic populations



Proportion of people in poverty



Total policy changes

$$(\chi^2 = 11.30, p < 0.001)$$





Total assessments



Total sustainability efforts



Total promotions

$$(\chi^2 = 9.09, p < 0.01)$$

Type: Integration



Total promotions



Total programs



Total policy changes

$$(\chi^2 = 9.06, p < 0.01)$$

Type: Integration



Proportion of racial/ ethnic populations



Proportion of people in poverty



Overall integration

$$(\chi^2 = 9.46, p < 0.01)$$



Examples: Community Design

Type: Policy Changes



Proportion of racial/ ethnic populations

Proportion of people in poverty



$$(\chi^2 = 14.66, p < 0.001)$$





Proportion of racial/ ethnic populations

Proportion of people in poverty

Community design physical projects

$$(\chi^2 = 10.60, p < 0.01)$$

Anti-Type: Promotions



Proportion of racial/ ethnic populations



Population size



Community walk/bike promotions

$$(\chi^2 = 4.67, p < 0.05)$$

Anti-Type: Programs



Proportion of racial/ ethnic populations



Population size



Community walk/bike programs

$$(\chi^2 = 4.83, p < 0.05)$$



Examples: Active Transportation

Type: Policy Changes



Assessment activities



Sustainability efforts



Active transportation policy changes

$$(\chi^2 = 11.30, p < 0.001)$$

Type: Physical Projects



Assessment activities



Sustainability efforts



Active transportation physical projects

$$(\chi^2 = 13.23, p < 0.001)$$

Anti-Type: Integration



Community walk/bike promotions



Active transportation policy changes



$$(\chi^2 = 14.41, p < 0.001)$$

Anti-Type: Integration



Community walk/bike promotions



Active transportation physical projects



Active transportation policy changes

$$(\chi^2 = 14.41, p < 0.001)$$



Examples: Parks and Recreation

Type: Policy Changes



Parks and recreation partners

Parks and recreation resources



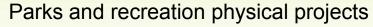
$$(\chi^2 = 9.42, p < 0.01)$$





Parks and recreation partners

Parks and recreation resources



$$(\chi^2 = 10.54, p < 0.01)$$





Proportion of racial/ ethnic populations



Proportion of people in poverty



Parks and recreation promotions

$$(\chi^2 = 10.37, p < 0.01)$$

Anti-Type: Programs



Proportion of racial/ ethnic populations



Proportion of people in poverty



Parks and recreation programs

$$(\chi^2 = 9.50, p < 0.01)$$



Examples: School

Type: Physical Projects



Proportion of racial/ ethnic populations

Proportion of people in poverty

School physical projects

$$(\chi^2 = 11.04, p < 0.001)$$

Type: Promotions



Proportion of racial/ ethnic populations

Proportion of people in poverty

School promotions

$$(\chi^2 = 11.76, p < 0.01)$$

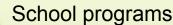
Type: Programs



Proportion of racial/ ethnic populations



Proportion of people in poverty



$$(x^2 = 16.47, p < 0.01)$$

Type: Integration



Proportion of racial/ ethnic populations



Proportion of people in poverty

School integration

$$(x^2 = 15.60, p < 0.01)$$



Some considerations for the field...

- Measures for community context and implementation variables
- Data discrepancies across methods
- Defining variables for analysis
- Summarizing complex findings

For more information...







ALbD "Best Practices" supplement (available: <u>http://www.activelivingbydesign.org/AJPM</u>)



- ALbD "Evaluation" supplement (available: http://www.activelivingbydesign.org/events- nedicine-november-2012-supplement)
- www.transtria.com/albd



ALR-funded sites (Columbia, MO and Somerville, MA)

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